

WHAT IS CLAIMED IS:

1. A magnetostriction-type torque sensor comprising:
a shaft formed of a magnetic material and provided with
at least a magnetostrictive film;
5 an exciting coil for exciting the magnetostrictive film
provided on the shaft;
a detection coil for detecting a change in a magnetic
field; and
yoke portions respectively provided around outer
10 peripheries of the exciting coil and the detection coil; and
magnetic shield section formed of a magnetic material
provided around the outer periphery of the yoke portion.
2. The torque sensor according to claim 1, wherein
15 the magnetic shield section is formed of a magnetic
material exhibiting a low coercive force characteristic.
3. The torque sensor according to claim 1, wherein
a predetermined distance is provided between the magnetic
20 shield section and the yoke portion.
4. The torque sensor according to claim 1, wherein
the magnetic shield section is disposed parallel to the
shaft so as to uniformly impart a magnetic effect from an outside
25 world to the shaft.

5. The torque sensor according to claim 1, wherein
the torque sensor is mounted as a sensor for detecting
a torque occurring in a steering system of a vehicle having
5 an electric power steering apparatus.